

**Notice of Allowability**

Application No.

10/519,905

Examiner

Christopher Verdier

Applicant(s)

FURUTA, HIDETO

Art Unit

3745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Preliminary Amendment dated December 28, 2004.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 12-28-04
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the Specification:

On page 1, line 1, "SPECIFICATION" has been deleted.

On page 1, line 2, "NAME OF THE INVENTION" has been deleted.

On page 1, line 15, "revolution" has been changed to -- revolutions --.

On page 1, line 22, -- a -- has been inserted after "by".

On page 1, line 27, "of" has been deleted.

On page 1, line 28, "examples" has been changed to -- example --.

On page 1, line 32, -- a -- has been inserted after "by".

On page 2, line 8, -- a -- has been inserted after "by".

On page 3, line 4, -- a -- has been inserted after "by".

On page 6, line 10, -- a -- has been inserted after "by".

On page 9, line 5, -- a -- has been inserted after "by".

On page 11, line 17, -- a -- has been inserted after "by".

On page 18, lines 15-16, "it system that" has been deleted.

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On page 20, line 1, -- a -- has been inserted after “by”.

On page 21, line 5, -- the -- has been inserted after “by”.

In the Claims:

In claim 1, line 1, -- the -- has been inserted after “comprising”.

In claim 3, line 3, “wherein” has been deleted.

In claim 3, line 3, -- and -- has been inserted after “,”.

The above changes to the specification and claims have been made to correct obvious informalities.

***Reasons for Allowance***

The following is an examiner’s statement of reasons for allowance:

The instant application is directed towards an unobvious improvement over the invention disclosed in Japanese Patent Publication 2000-110,560. Japanese Patent Publication 2000-110,560 discloses a fan revolution speed control method substantially as claimed, comprising the steps of detecting an actual temperature of a cooling target fluid that is to be cooled by a cooling fan 17, determining a target fan revolution speed based on the difference between the actual temperature detected and a target temperature by means of a proportional integral control unit 37-39, and controlling the cooling fan based on the target fan revolution speed. The improvement comprises restricting an accumulation of integral elements at a negative side when performing integration by the proportional integral control unit. The PCT Publication WO

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2005/014987 lists Japanese Patent Publications 53-079,175 and 60-193,010 as “Y” references against the claims. Both of these references disclose that it is known to restrict accumulation of integral elements at a negative side when performing integration by a proportional integral control unit. However, neither of these references pertain to fan speed revolution speed control, and do not disclose a target fan revolution speed being determined based on the difference between an actual temperature detected and a target temperature by means of a proportional integral control unit, and controlling the cooling fan based on the target fan revolution speed. There is no reason or motivation to apply the teachings of Japanese Patent Publications 53-079,175 or 60-193,010 to the fan revolution speed control method disclosed by Japanese Patent Publication 2000-110,560.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

#### ***Prior Art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Furuta '370 and '368 are cited to show fan speed control methods based on the temperature of target fluids

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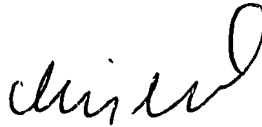
Yamamoto is cited to show a fan speed control arrangement where a target fan speed is set according to a detected temperature of cooling fluid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Verdier whose telephone number is (571) 272-4824. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward K. Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C.V.  
November 2, 2007



Christopher Verdier  
Primary Examiner  
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